

Ketamine

Formulary

Douglas County Kansas EMS System

April 2022

Approved Provider: Paramedic

Referenced Protocols: [Breathing Difficulty](#), [Behavior Disorder](#), [Pain/Anxiety Management](#)

Dosing and Administration	
ADULT Medications: <ul style="list-style-type: none">• <u>Analgesia:</u> 0.1-0.3 mg/kg IV/IO/IM (Max dose 50mg)• <u>Anxiety:</u> 0.3 mg/kg IV/IO/IM (Max dose 50mg)• <u>Excited Delirium:</u> 3-5 mg/kg IM (Max 500mg)	PEDIATRIC Medications: Refer to HandTevy <i>Contraindicated less than 3 months old</i> <ul style="list-style-type: none">• <u>Analgesia:</u> 0.1-0.3 mg/kg IV/IO (Max dose 50mg)• <u>Anxiety:</u> 0.3 mg/kg IV/IO/IM (Max dose 50mg)• <u>Excited Delirium:</u> 3-5 mg/kg IM (Max 500mg)

Pharmacology and Actions:

- Produces dissociative anesthesia at high doses, blocks NMDA receptors, produces analgesia at lower doses, adjunct to opioid analgesics

Indications:

- For violent and agitated patients that pose a serious challenge for EMS personnel.
- To reduce excited delirium syndrome in extremely agitated patients.
- Pain management of trauma patients, management of pain for patient in shock
- Management of pain to supplement/augment fentanyl
- Management of pain in patient with contraindication to fentanyl administration
- Management of pain for patient who refuses opioids
- Reduce anxiety
- Reduce CPAP anxiety

Contraindications:

- Extreme HTN, SBP>200mmHg
- Hypersensitivity to Ketamine
- ACS
- CVA
- **Use of ketamine in children less than 3 months of age is contraindicated**

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Precautions:

- Severe hypertension
- Schizophrenia
- 3rd trimester pregnancy

Administration:

- Acceptable routes include IM (agitation, anxiety or analgesia) and IV (analgesia and anxiety)

Side Effects:

- Respiratory depression
- Laryngospasm
- Hypertension
- Hypotension
- Bradycardia
- Tachycardia
- Delirium
- Hallucinations
- Flushing
- Increased secretions
- Nausea, vomiting
- Nystagmus, twitching.